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COUNTRY	Germany (Russian Zone)	DATE DISTR.	20 APR 51
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1. Reparations Orders for 1951.

Orders had been received by 26 January by Yerk für Fernreldeuesen H.F., Oberspreeuerk (SAG Kabel) for the delivery of the following tubes during an unspecified period of 1951:

LD 7	1.000
LD 9	² 500
LD 11	1,000
ID 12	2,000
IR 260 D	240
6 AC 7	60,000
6 AG 7	50,000
HBO 500	1.000

Gauze for the above ID 11 and ID 12 started to arrive on 12 December 1950 from the TEMA Metallueberei, Neustadt/Orla, which had previously stated that it was unable to deliver. Thirty-six reters, 30 nm wide, had been received by 26 January 1951. No stocks of wartz are held by the OSM and the order for the NBO 500 projection bulbs cannot be undertaken until this has been procured.

2. Tube Production.

a. The metal ceramic tubes sent by the OSW to the Sachsenwork, Radeberg, have a guaranteed life of 200 hours only. The Sachsenwork has requested that this should be raised to 10,000 hours, giving as a reason that the sets are to to be located in remote localities where it would be difficult to furnish replacements. This improvement could be effected by altering the load on the anode, but there is no prospect of an irrediate change in the specification of the tube since preliminary tests of the new design would take over a year.

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~2-

- b. The production of transmitting tubes has come to a standstill, because of a complete lack of zirconium; the monthly requirement is $7\frac{1}{2}$ kg. At present none is being produced in East Germany, but it is hoped to manufacture it from zirconium dioxide. It has not yet been decided which factory will undertake this production.
- c. Lest year, the OSV refused a reparations order for 1,000 LD 1 tubes monthly, because of a lack of tunesten rins. Now the RFT Funkwerk Erfurt, has decided to remufacture this tube (probably to fill this same order) and has ordered tungsten pins from the OSV. It is unlikely that the OSV will be able to supply these.
- d. OSI 2730: The design of this as a triode with "Gitter@berstifte" has been completed. Tests have achieved an output of 1 M at vave-lengths down to 2 meters. It is now being redesigned with "Gitterschubenausführung" (concentric circles) and it is hoped to reach 1 meter and 1 M.
- 3. OSU 2780: Work on this 10 kl 1 meter tube has been held up by a shortage of skilled glass blovers, 1200 man-hours are required for the glass work on each tube (sic).
- ?. RFT Zwonitz has placed the following order for 1951:

G 7.5/0.6	300	monthly
S 0.8/21	125	11
STV 280/40	500	11
TV 280/80	250	п
STV 100/402	200	n
HDO 500	200	Ħ

This factory is manufacturing revolution counters and devices for analysing motion in cotton waving looms.

50X1-HUM

3. Television Program, Sachsenwork Radeberg.

- a. For these sets the Oberspreeuerk has been ordered to produce the tubes which are more difficult to ranufacture. The simpler tubes will be supplied from Russia.
- b. A conference was held _________ at which the delivery of tubes and testing equipment for the television receivers being made in Radeberg was discussed. Korotkov stated that the Rachsenwerk had contracted to test and deliver its quota of a ts complete with tubes before the end of the month of January. It was decided that the OSI deliver to the Rachsenwerk one test scanner, one transmitter for the third frequency, and two cadence targers. The Cachsenwerk would build, after a specimen transmitter for the third frequency, three further transmitters, of which two would be for the lower two frequencies and one for the third frequency. The first transmitter (for two frequencies) was ready for delivery to the Sachsenwerk, as was the first cadence targer. After delivery, the Sachsenwerk would be in a position to test its television receivers.
- c. Radeberg requested delivery of 1,500 sets of tubes in January. The following serious difficulties were cited:
 - 1) The time allowed for developing the tubes was too short.
 - The manufacture of the machine tools necessary for series production of the tubes.
 - 3) The rurchare of P.2-Iron 0.3.

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- 4) The purchase of Indian mica.
- The purchase of fluorescent materials; a supply for 300 tubes only was held in stock.
- 6) The rurchase of pumps.
- A conference was held concerning the T.2 program 50X1-HUM The Russians present were Conergidirektor Glybin, Chief Engineer Fedchenko, Chief Accountant Stormyakov, Koslov, Burov of the Machrichtentechnische Entwicklung und Fabrikation (NEF) and Medvedyev of SAG Kabel. 50X1-HUM
 - 1) The following points were made The program would nean doubling the output of the OSU, including the production of a large number of television tubes.
 - Tuenty-five pumping systems would be required. Only 14 were available. Twenty-five would mean a small reserve, if three shifts were prized.
 - 3) Tules requred: Tyres 6 AC 7, 6 AG 7: 17,000 monthly great difficulties in manufacture but success expected. 1 7: difficulties with the grid; manufacture of 14,000 monthly would be possible. 6 SJ 7: Prototypes fairly satisfactory. 6 H 8 M: Experiments unsatisfactory. P 50: The rost difficult of the tubes to connufacture; no drawings or tools were provided. 1 Z]: Prototyre not built because of lack of equipment. Television tubes: Develorment almost conrlote; expariments still being rade with waterglass and "Schwärzersste"; one tube is being tested for endurance.
 - 4) Three hundred additional workers would be needed, including 100 in the radio tube section, 60 in the television tube section (70 altogether), 30 in the stamping shop and 20 in the galvanizing shop.
 - 5) The inadequate manpower in the stamping shor was described as a serious bothleneck, and the present rethods of working as inadequate for resting the demands of the 1951 program. Machines were short. A third shift was being formed, but there were an insufficient murber of "Dinrichter".
 - 6) Enterials needed for the T.2 program included the following:

Radio tube bottleneck raterials:

- 10 tons Tiefziehblech (desr-drawn sheets); 4 tons available, but of roor quality.
- 1.5 tons nickel wire
- 2.5 tons soldering tin
- 5 tons "Jinbaunickel"
- 2 tons Disenculvar (iron powder)
- 4 million m. Moude'teliraht (motor binding wire) 300,000 m "Kerndraht"

- I million r. tungsten wire
- 1.5 million Glaskolben (class bulbs)
- 2 tons Glasrohr (glass tubing)
- 2 million mica plates
- 200 kg. Alubronze (aluminum bronze)

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Television tube bottleneck materials:

150 kg. Cromnickel Draht u. Blech (crome nickel wire and sheet)
60,000 Bildrihren-Kolben (picture tubes)
75,000 "Kolbenhälse"
190 kg. "Leuchtstoff" H 213
8.5 tons "Schwärzepaste" (100,000 DM).
12 kg. Thorium-Pulver (thorium powder)
1.2 tons Bronzeblech (bronze sheet)
450 kg. Cu-Ni

 Collaboration in connection with the program would be necessary with the following:

The Weisswasser glass works for glass bulbs and tubes; outlook good; Walmwerk für Buntmetall, Hettstedt, for nickel bands and tubes (outlook very bad), and the help of SAG Kabel or an even more important organization was requested.

Stemag, Berlin, for ceramics; no difficulties.
Isopress for sockets; difficulties with regard to supplies.
LTES for packing of products; raw materials not available.
Testing tables for the P 50 tubes were being made in Erfurt.

8) The tubes must be of especially good quality, since the sets are destined for export to the USCR. The laws of the DDR decree responsibility for poor quality, and under no circumstances must conditions similar to those in Erfurt be allowed to obtain.

4. General

- a. Korotkov, a television specialist, arrived from Loningrad in early January 1951 to replace Fedchen'ro. The latter is expected to leave for the USCR during the first half of February.
- 5. A Central Control Office (Zentral-Kontrollstelle) under Seidel has been formed to improve the quality of goods manufactured by the OSW. This office is directly responsible to SAG "Kabel" and not to the directorate of the OSW.
- During 1950,a total of 850,000 radio tubes were manufactured by the OSW, and 590,000 completed and passed inspection for sale. The difference respresents the rejected tubes. Special tubes are not included in the above figures.
- d. Some production statistics are as follows:

Month	Special 7	lubes	Radio To	zbes
	Target (1,000 DM (East)	Actual Pro- duction in %	Target (1,000 DM (East)	Actual Pro- duction in S
Dec. 1950 Jan. 1951 Feb. 1951	600 800	350 106	1,000	700 110
Mar. 1951	900	-	1,000 1,200	was a

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CENTRAL INTELLIGENCE AGENCY

-5-

50X1-HUM

- a. A new department for the manufacture of instruments (Abteilung Gerätefertigung) has been formed under the direction of Martin.
- f. One hundred vacuum diffusion pumps will be required by the OSW during
 1951. These are quite unobtainable in the East Zone, and will be bought
 from the firm
 50X1-HUM
- g. The design of a linear accelerator originally to be made by the OSW is now being undertaken by the Heinrich Hertz Institute, Berlin-Adlershof.
- h. On the occasion of Stalin's birthday in December 1950, the hundredth X-ray tabe type IR 260 K to be manufacted in the factory was presented to a Russian officer for forwarding to Stalin. Wilhelm Pieck was also presented with an IR 260 K valve on his birthday in January 1951. By an astonishing coincidence this tube also bore the serial number one hundred.
- 1. A sitdown strike lasting several hours occurred in one of the tube manufacturing departments on 23 January. The workers should have received their two-week pay on 22 January. They did not, and they were told on the following morning that there was no noney and they could not be paid. All the workers in this section, about 200 girls, went on strike and greeted with abuse the trades union officials and even Director Miller who tried to persuade them to continue work. They resumed work after they had been paid on the afterneon of 23 January.

APPENDIX

Tube production provisionally planned by the Oberspreamerk for the First Quarter of 1951.

The following list was brought up to date to approximately I January 1951, that is, to shortly before the receipt of the reparations order mentioned in paragraph 1.

OSW 3118 (A z1) OSW 3121 (AZ 11)	7,000	Technical triodes OSW 2004 (ID 12) OSW 2116 (ID 11)	2,600 450
OSW 3116 (6 X 5) OSW 3136 (1 Z 1)	1,800 18,000	Technical pentodes OSW 2582 (LW 3)	1,200
<u>Duodiodes</u> OSW 3109 (6 H 6)	3,500	Name of the second of the seco	150
Triodes OSW 3112 (6 J 5)	5,000	Cathode ray tubes OSW 2146 (12" \$) OSW 2789 (9" \$) desired	15 9,000
OSV 3106 (6 V 6)	7,000	OSW 2068 b	30
OSV 3108 (6 L 6)	4,400	Rare gas tubes:	
OSU 3103 (AL 4)		High tension and super tension t	ubes
05 / 3117 (CL 4)	-	OGW 2523 (HBO 500)	600
OSW 3135 (6 F 6)		OSW 3205 (HOA 500)	300
OSV 2190 (6 AC 7) OSV 2192 (6 AG 7)	65,000	OSW 3201 (HJE 50)	300
OSW 3111 (6 SK 7)	13,000	OSI 3209 (PRK-2)	2,600
OSW 3119 (A F 7)	10,000	OSW 3210 (PRK -4)	2,000
OSW 3128 (6 SM 7)	37,000	Hann 15 whit during and	
0SW 3127 (6 SJ 7)	1,500	Neon light tubes and incardescent cartridges (Glimazunder)	ថ
05W 3137 (P 50)	11,000	OSW 2499 (NHMT) not yet OSW 2609) decided.	

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-6-

<u>Hertodes</u>		High tension and glow-cathode	rectifier
OSW 3104 (6 SA 7)	25,000	OSU 3541 (N110/20)	300
		OSW 3102 (AG 1006)	180
Modulation indicator tube	1	OSH 3432 (SO.8/21III)	300
OSW 3110 (6 E 5)	3,500	OSW 3433 (S1/0, 211IA)	1,800
		OSW 3418 (\$5/201)	30
"Verbundröhren"		OSW 3415 (S15/401)	55
OSW 3125 (6 E 8)	10,000	OSW 3401 (G7.5/0.64)	
(6 SQ)	1,800	OSW 3402 (G 10/4)	900
		081 3413 (S 5/6i)	400
Duotriodes		30 / C)/OL/	² 50
OSW 3129 (6 H 8 M)	42,000		
Management and a second and		Stabilizers	
Transmission tubes		OSY 3801 (STV 70/6)	600
OSW 3123 (RS 720)	30	OSY 2450 (STV 150/40z)	450
OSW 3114 (RS 558)	2	OSW 3806 (STV 280/40)	2,000
OSW 3113 (RS 566)	20	OGW 3808 (STV 280/80	850
		OSW 3811 (STV 100/40z)	600
Short wave triodes			000
OSW 3101 (TS 41)	900		

Notes on tubes mentioned above:

1 Z 1 6 F 6 6 AG 7) 6 AC 7)	Russian rectifier tube for use in television receivers; 3 mA, 20 Similar to EF 12. 1500 of each for Redeberg for TV receivers.
6 SJ 7 P 50 RS tubes TS 41 OSW 2789 STV tubes	Similar to the 6 SN 7. Russian tube, similar to the German IS 50. All for the German Post Office For Dresden firm (Elmod?) 1D 11 & 12; or Radeberg. For Radeberg for TV receivers For Zwönitz and Radeberg

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